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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,950	05/02/2006	Yasushi Kusaka	127929	5286
25944 7590 12/30/2008 OLIFF & BERRIDGE, PLC P.O. BOX 320850			EXAMINER	
			ESHETE, ZELALEM	
ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
			3748	
			MAIL DATE	DELIVERY MODE
			12/30/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/577.950 KUSAKA ET AL. Office Action Summary Examiner Art Unit Zelalem Eshete 3748 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 30 September 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 11-20 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) 16-18 is/are allowed. 6) Claim(s) 11.12.14 and 15 is/are rejected. 7) Claim(s) 13.19 and 20 is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/06)
Paper No(s)/Mail Date ______.

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

This Office action is in response to the amendment filed on 9/30/2008.

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 14 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Schroeder et al. (U.S. Patent 5.494,007).

Schroeder et al. disclose an electrically driven valve apparatus comprising a valve gear (Figures 1, 5, and 6) of an internal combustion engine converting rotational motion (column 1, lines 53-55) of an electric motor 10 into linear motion by a cam 24, 24', 24", and driving a valve 18 of a cylinder so as to be opened and closed based on the linear motion (i.e. the valve being driven to be opened and closed based on a linear motion, wherein, a rotational motion of the electric motor is converted into the linear motion, which drives the valve to be opened and closed, by the cam), the valve gear comprising an electric motor means 100 capable of actuating the electric motor 10 in a forward rotating drive mode (column 2, line 31) in which the cam is continuously rotated in one direction and wherein the electric motor control means 100 comprises forward

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rotating control means for changing a rotating speed of the cam before the valve starts lifting (column 2, line 49) in the forward rotating drive mode so as to change a working angle of the valve (column 8, lines 9-12), the motor being capable of running at any speed with respect to the crankshaft speed (column 1, lines 56-60, column 2, lines 57-62) (therefore, the forward rotating control means changing the rotating speed of the cam in the forward drive mode such that a target opening time is realized, at the time that the lift of the valve is started, or a target closing time is realized, at the time that the valve is fully closed, or a target lift amount at a crank angle is realized (column 1, line 56 to column 2, line 7).

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being obvious over Schroeder et al.

Schroeder et al. disclose the valve gear apparatus cited above, however, fail to specifically disclose the cam drive means being a rocking drive mode. Rocking or oscillating drive modes are well known in the art and to include such a mode in the

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apparatus of Schroeder et al. would be a matter of obvious choice to one of ordinary

skill depending on torque variables, space considerations, etc.

Allowable Subject Matter

6. Claims 13, 19, and 20 are objected to as being dependent upon a rejected base

claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

7. Claims 16-18 are allowed.

Response to Arguments

5. Applicant's arguments filed 9/30/2008 have been fully considered but they are

not persuasive. With respect to applicant's argument on pages 8,9: Schroeder disclose

the amended claims as recited above since the variable valve control is implemented on

continuous basis (column 1, line 55 to column 2, line 7).

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zelalem Eshete whose telephone number is (571) 272-4860. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Denion can be reached on (571) 272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Zelalem Eshete/ Primary Examiner, Art Unit 3748